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1 A hierarchy-aware approach to faceted classification of objected-oriented components
E. Damiani, M. G. Fugini, C. Bellettini
July 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Issue 3

Full text available: pdf(310.25 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This article presents a hierarchy-aware classification schema for obje ct-oriented code, where software components are classified according to their behavioral characteristics, such as provided services, employed algorithms, and needed data. In the case of reusable application frameworks, these characteristics are constructured from their model, i.e., from the description of the abstract classes specifying both the framework structure and purpose. In conven ...

Keywords: code analysis, component repositories, component retrieval, software reuse, user feedback

2 A model of multimedia information retrieval
Carlo Meghini, Fabrizio Sebastiani, Umberto Straccia
September 2001 **Journal of the ACM (JACM)**, Volume 48 Issue 5

Full text available: pdf(5.69 MB) Additional Information: full citation, abstract, references, citings, index terms

Research on multimedia information retrieval (MIR) has recently witnessed a booming interest. A prominent feature of this research trend is its simultaneous but independent materialization within several fields of computer science. The resulting richness of paradigms, methods and systems may, on the long run, result in a fragmentation of efforts and slow down progress. The primary goal of this study is to promote an integration of methods and techniques for MIR by contributing a conceptual model ...

Keywords: Description logics, fuzzy logics, multimedia information retrieval

3 Corrigenda: a hierarchy-aware approach to faceted classification of object-oriented components
E. Damiani, M. G. Fugini, C. Bellettini
October 1999

09/929,202

ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 8 Issue 4

Full text available: pdf(310.50 KB) Additional Information: full citation, abstract, references, citings, index terms

This article presents a hierarchy-aware classification schema for object-oriented code, where software components are classified according to their behavioral characteristics, such as provided services, employed algorithms, and needed data. In the case of reusable application frameworks, these characteristics are constructed from their model, i.e., from the description of the abstract classes specifying both the framework structure and purpose. In conventio ...

4 Multimedia communications, relevance feedback and indexing: Bitmap indexing method for complex similarity queries with relevance feedback

Guang-Ho Cha

November 2003 **Proceedings of the 1st ACM international workshop on Multimedia databases**

Full text available: pdf(339.25 KB) Additional Information: full citation, abstract, references, index terms

The similarity indexing and searching is well known to be a difficult one for high-dimensional applications such as multimedia databases. Especially, it becomes more difficult when multiple features have to be indexed together. Moreover, few indexing methods are currently available to effectively support disjunctive queries for relevance feedback.In this paper, we propose a novel indexing method that is designed to efficiently handle complex similarity queries as well as relevance feedback in hi ...

Keywords: bitmap index, content-based image retrieval, high-dimensional index, relevance feedback, similarity search

5 Information access and retrieval (IAR): Video information retrieval using objects and ostensive relevance feedback

Paul Browne, Alan F. Smeaton

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(609.12 KB) Additional Information: full citation, abstract, references

In this paper, we present a brief overview of current approaches to video information retrieval (IR) and we highlight its limitations and drawbacks in terms of satisfying user needs. We then describe a method of incorporating object-based relevance feedback into video IR which we believe opens up new possibilities for helping users find information in video archives. Following this we describe our own work on shot retrieval from video archives which uses object detection, object-based relevance ...

6 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems

M. L. Kherfi, D. Ziou, A. Bernardi

March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1

Full text available: pdf(294.13 KB) Additional Information: full citation, abstract, references, index terms

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

7 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

8 Similarity querying II: QCluster: relevance feedback using adaptive clustering for content-based image retrieval

Deok-Hwan Kim, Chin-Wan Chung

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Full text available: pdf(2.15 MB) Additional Information: full citation, abstract, references, citings, index terms

The learning-enhanced relevance feedback has been one of the most active research areas in content-based image retrieval in recent years. However, few methods using the relevance feedback are currently available to process relatively complex queries on large image databases. In the case of complex image queries, the feature space and the distance function of the user's perception are usually different from those of the system. This difference leads to the representation of a query with multiple ...

Keywords: classification, cluster-merging, content-based image retrieval, image database, relevance feedback

9 Image Retrieval: Adaptive nearest neighbor search for relevance feedback in large image databases

P. Wu, B. S. Manjunath

October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

Full text available: pdf(1.38 MB) Additional Information: full citation, abstract, references, citings, index terms

Relevance feedback is often used in refining similarity retrievals in image and video databases. Typically this involves modification to the similarity metrics based on the user feedback and recomputing a set of nearest neighbors using the modified similarity values. Such nearest neighbor computations are expensive given that typical image features, such as color and texture, are represented in high dimensional spaces. Search complexity is a ciritcal issue while dealing with large databases and ...

Keywords: nearest neighbor search, relevance feedback, similarity retrieval

10 MEGA---the maximizing expected generalization algorithm for learning complex query concepts

Edward Chang, Beitao Li

October 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 4

Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(1.34 MB) terms

Specifying exact query concepts has become increasingly challenging to end-users. This is because many query concepts (e.g., those for looking up a multimedia object) can be hard to articulate, and articulation can be subjective. In this study, we propose a query-concept learner that learns query criteria through an intelligent sampling process. Our concept learner aims to fulfill two primary design objectives: (1) it has to be expressive in order to model most practical query concepts and (2) i ...

Keywords: Active learning, data mining, query concept, relevance feedback

11 Supporting similarity queries in MARS
Michael Ortega, Yong Rui, Kaushik Chakrabarti, Sharad Mehrotra, Thomas S. Huang
November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

Full text available: pdf(2.48 MB) Additional Information: full citation, references, citings, index terms

12 Searching in metric spaces with user-defined and approximate distances
Paolo Ciaccia, Marco Patella
December 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 4

Full text available: pdf(555.89 KB) Additional Information: full citation, abstract, references, citings, index terms

Novel database applications, such as multimedia, data mining, e-commerce, and many others, make intensive use of similarity queries in order to retrieve the objects that better fit a user request. Since the effectiveness of such queries improves when the user is allowed to personalize the similarity criterion according to which database objects are evaluated and ranked, the development of access methods able to efficiently support user-defined similarity queries becomes a basic requirement. In t ...

Keywords: Distance metrics, user-defined queries

13 Supporting efficient multimedia database exploration
Wen-Syan Li, K.Selçuk Candan, Kyoji Hirata, Yoshinori Hara
April 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 4

Full text available: pdf(569.30 KB) Additional Information: full citation, abstract, index terms

Due to the fuzziness of query specification and media matching, multimedia retrieval is conducted by way of exploration. It is essential to provide feedback so that users can visualize query reformulation alternatives and database content distribution. Since media matching is an expensive task, another issue is how to efficiently support exploration so that the system is not overloaded by perpetual query reformulation. In this paper, we present a uniform framework to represent statistical inform ...

Keywords: Exploration, Human computer interaction, Multimedia database, Progressive processing, Query relaxation, Selectivity statistics

14 Research track: Towards systematic design of distance functions for data mining applications
Charu C. Aggarwal
August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(215.19 KB) Additional Information: full citation, abstract, references, index terms

Distance function computation is a key subtask in many data mining algorithms and applications. The most effective form of the distance function can only be expressed in the context of a particular data domain. It is also often a challenging and non-trivial task to find the most effective form of the distance function. For example, in the text domain, distance function design has been considered such an important and complex issue that it has been the focus of intensive research over three decad ...

Keywords: data mining, distance functions, user interaction

15 Multimedia: OCTOPUS: aggressive search of multi-modality data using multifaceted knowledge base

Jun Yang, Qing Li, Yueting Zhuang

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Full text available: pdf(321.15 KB) Additional Information: full citation, abstract, references, index terms

An important trend in Web information processing is the support of multimedia retrieval. However, the most prevailing paradigm for multimedia retrieval, content-based retrieval (CBR), is a rather conservative one whose performance depends on a set of specifically defined low-level features and a carefully chosen sample object. In this paper, an aggressive search mechanism called *Octopus* is proposed which addresses the retrieval of multi-modality data using multifaceted knowledge. In parti ...

Keywords: layered graph model, link analysis, multi-modality data, multifaceted knowledge base, multimedia retrieval, relevance feedback

16 An efficient boosting algorithm for combining preferences

Yoav Freund, Raj Iyer, Robert E. Schapire, Yoram Singer

December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: pdf(392.20 KB) Additional Information: full citation, abstract, index terms

We study the problem of learning to accurately rank a set of objects by combining a given collection of ranking or preference functions. This problem of combining preferences arises in several applications, such as that of combining the results of different search engines, or the "collaborative-filtering" problem of ranking movies for a user based on the movie rankings provided by other users. In this work, we begin by presenting a formal framework for this general problem. We then describe and ...

17 A survey of image registration techniques

Lisa Gottesfeld Brown

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Full text available: pdf(5.20 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Registration is a fundamental task in image processing used to match two or more pictures taken, for example, at different times, from different sensors, or from different viewpoints. Virtually all large systems which evaluate images require the registration of images, or a closely related operation, as an intermediate step. Specific examples of systems where image registration is a significant component include matching a target with a real-time image of a scene for target recognition, mon ...

Keywords: image registration, image warping, rectification, template matching

18 Content-based image retrieval for multimedia databases: Image database retrieval utilizing affinity relationships

Mei-Ling Shyu, Shu-Ching Chen, Min Chen, Chengcui Zhang, Kanoksri Sarinnapakorn

November 2003 **Proceedings of the 1st ACM international workshop on Multimedia databases**

Full text available: pdf(554.57 KB) Additional Information: full citation, abstract, references, citings, index terms

Recent research effort in Content-Based Image Retrieval (CBIR) focuses on bridging the gap between low-level features and high-level semantic contents of images as this gap has become the bottleneck of CBIR. In this paper, an effective image database retrieval framework using a new mechanism called the Markov Model Mediator (MMM) is presented to meet this demand by taking into consideration not only the low-level image features, but also the high-level concepts learned from the history of user's ...

19 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available: pdf(636.24 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

20 Dynamics of IP traffic: a study of the role of variability and the impact of control

Anja Feldmann, Anna C. Gilbert, Polly Huang, Walter Willinger

August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 29 Issue 4

Full text available: pdf(1.77 MB) Additional Information: full citation, abstract, references, citings, index terms

Using the *ns-2*-simulator to experiment with different aspects of user- or session-behaviors and network configurations and focusing on the qualitative aspects of a wavelet-based scaling analysis, we present a systematic investigation into how and why variability and feedback-control contribute to the intriguing scaling properties observed in actual Internet traces (as our benchmark data, we use measured Internet traffic from an ISP). We illustrate how variability of both user aspects and ...

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